



Johnston, R., Manley, D., Jones, K., & Rohla, R. (2020). The Geographical Polarization of the American Electorate: a Country of Increasing Electoral Landslides. *GeoJournal*, 85(1), 187-204.  
<https://doi.org/10.1007/s10708-018-9955-3>

Peer reviewed version

Link to published version (if available):  
[10.1007/s10708-018-9955-3](https://doi.org/10.1007/s10708-018-9955-3)

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## The geographical polarization of the American electorate: a country of increasing electoral landslides?

**Abstract:** American politics have become increasingly polarized in recent decades, not only ideologically but also geographically. The extent of that geographical polarization is explored at the county and SMSA scales for the presidential elections held between 1992 and 2016 and also, at the much finer, precinct, scale for the 2008, 2012 and 2016 elections. The patterns that emerge show that much of non-metropolitan USA has become increasingly dominated by Republican Party candidates, whereas the large metropolitan central cities remain dominated by the Democrats. Within those metropolitan areas, change, especially at the 2016 contest, was largely confined to their suburban districts.

**Keywords** United States Presidential elections Landslides Electoral geography

America is polarized. Our political parties are highly polarized and the American electorate is highly polarized. ... Political divisions in American politics are now deep and real. (Campbell, 2016, 1)

Campbell's claim summarises the large recent literature analysing the growing political polarization of United States society, at both elite and grassroots levels. The electorate has become ideologically more polarized, and so have its representative bodies. The left and the right differ more than previously in their political beliefs, and together outnumber those he defines as moderates. They share common (American) values, such as 'peace and prosperity, a secure nation, equal opportunities and justice, an efficient government with fair elections, a successful educational system, ... [and] a compassionate system of safety nets for those who cannot fend for themselves' (Campbell, 2016, 2), but there are 'sharp and deep differences between large segments of the electorate and between the political parties about what these common goals mean in practice, how they might best be achieved, and what role government should play in achieving them' (p.3).

Much less has been written about a claimed parallel trend – a growing geographical polarization in support for the two political parties, the differences between which have become wider as a consequence of the increased ideological polarization. (A recent, extensive discussion of geographical polarization and its links to – indeed participation in – the ideological polarization, is provided by Hopkins, 2017.) The country, it is contended, has become increasingly divided between, and dominated by, places that predominantly support the Republican Party (the 'red places') and those that predominantly support the Democrats (the 'blue places'), with a consequent reduction in those where neither party dominates (the 'purple places': Ansolabehere et al., 2006); according to several commentators this growing divide – a 'clustering of like-minded America' – is tearing the country apart (the quote comes from the subtitle of Bishop's 2009 book, *The Big Sort*). That clustering results from what other commentators – such as Murray (2013) and Florida (2017) – identify as a 'new form of segregation' as the wealthiest groups (Murray focuses on 'the new upper class' and Florida on 'the creative class') separate themselves from the rest of society. The result is that people with particular political ideologies, reflected in their voting behaviour, are spatially distancing themselves from those with whom they disagree. The geography of that segregation –

and the electoral geography that it underpins – becomes self-reinforcing, further reducing the number of ‘purple places’.<sup>1</sup>

That contention regarding spatial polarization has been subject to some criticism, however, with both commentators and academics arguing that the trend identified by Bishop is, at best, unclear (neither Murray nor Florida pays much attention to voting patterns). Abrams and Fiorina (2012), for example, do not conclude that his analyses do not show increased ‘political residential segregation’ – Hopkins’s (2017) book makes clear that it is – but do claim that ‘Bishop’s sweeping argument about geographical political sorting has little or no empirical foundation’ (pp.205-206). The electoral geography may indeed be changing – indeed, an increasing number of studies of individual places have provided clear evidence of the type of polarization claimed by Bishop (for example, Kinsella et al., 2015; McDonald, 2011; and Myers, 2013) while statistical studies of national trends (e.g. Johnston et al., 2016, 2018; Lang and Pearson-Merkowitz, 2015) have provided strong evidence of growing spatial polarization in support for the two parties, at three separate spatial scales. Whether that polarization has resulted from sorting processes whereby movers within the United States are increasingly choosing to live among people with similar political views to their own remains open to question: see, for example, Cho et al. (2013, 2018) and Gimpel and Hui (2015), but also Mummolo and Nall (2017).

Several commentators have suggested that the impression of greater polarization has been created by misleading cartography. Maps of voting in the United States at the county scale, for example, emphasise the large, relatively under-populated rural areas at the expense of the metropolitan areas where most of the population lives<sup>2</sup> – leading the *Wikipedia* article on the issue to conclude that the map distortions ‘contribute to the misperception that the electorate is highly polarized by geography’.<sup>3</sup>

Is that the case? This paper presents an overview of recent – post-1992 – trends in the electoral geography of the United States, using both cartographic and statistical analysis to identify the extent of any polarization that has occurred at three separate spatial scales – by county (the units deployed by Bishop), by type of county (an inner city-rural continuum), and by voting precinct. In doing so, it substantially extends Bishop’s analytical framework, uncovering significant geographical variations within the national pattern.

### **The changing electoral geography at the county scale: a landslide of landslides?**

Bishop claimed that statistical analyses undertaken by his collaborator, Robert Cushing, using ‘all of the several ways to measure segregation’ developed by demographers, had provided convincing evidence that since 1976 the trend was ‘for Republicans and Democrats to grow geographically more segregated’ but that (Bishop, 2009, 9):

... the simplest way to describe this political big sort was to look across time at the proportion of voters who lived in landslide counties – counties where one party won by 20 percentage points or more.

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<sup>1</sup> The term ‘purple places’ can be traced back to Vanderbei’s map of the 2000 US presidential election, devised as a student exercise: his maps of that and subsequent elections can be found at <http://www.princeton.edu/~rvdb/JAVA/election2016/>. It was taken up by *US News and World Report* in 2004: <http://backissues.com/issue/US-News-and-World-Report-October-18-2004>

<sup>2</sup> See, for example, Mark Wilson (2012: <https://www.fastcodesign.com/1671268/infographic-forget-red-and-blue-the-most-accurate-map-of-us-voters-is-purple>), and John Sides (2013: [https://www.washingtonpost.com/news/monkey-cage/wp/2013/11/12/most-americans-live-in-purple-america-not-red-or-blue-america/?utm\\_term=.b6a1b1b913cb](https://www.washingtonpost.com/news/monkey-cage/wp/2013/11/12/most-americans-live-in-purple-america-not-red-or-blue-america/?utm_term=.b6a1b1b913cb)).

<sup>3</sup> [https://en.wikipedia.org/wiki/Purple\\_America](https://en.wikipedia.org/wiki/Purple_America).

To evaluate and extend his claims, that same definition is deployed here: polarization is represented by situations where one party's candidate for the presidency defeats the other party's candidate by 20 percentage points or more (of their combined, two-party vote total). If Bishop is correct, then the number of places where this occurred should have increased over the sequence of seven elections (1992-2016) for which we have data.<sup>4</sup> Use of the 20 percentage points gap between the two candidates is, of course, arbitrary but it is a useful threshold because very few counties won by that margin by a party at one election were won by the opposing party at a later contest during this period. Mapping the so-defined landslide counties thus provides a clear picture of those parts of the country where one party dominates.

Bishop's basic empirical contention that at the county scale the United States has become increasingly polarized in its voting for president is readily appreciated by a series of maps showing those counties that were won by landslides over the sequence of seven elections beginning with Bill Clinton's 1992 victory over George H. W. Bush.<sup>5</sup> A big change occurred between then and 2000, when George W. Bush defeated Al Gore. Figure 1 shows that landslide victories characterised only a minority of the counties in 1992: 19 per cent of them returned a Democratic landslide and another 19 per cent returned a Republican landslide, with neither party winning such a clear majority in the remaining 62 per cent. The Republican landslides mainly occurred to the west of the Missouri, covering much of Nebraska, western Kansas, Oklahoma and Texas plus major segments of Idaho, Nevada and Utah (Balentine and Webster, 2018). Democratic Party landslides were more widely spread, with clusters on the west coast and in the 'Black Belt' along the Mississippi in Arkansas, Louisiana and Mississippi, as well as in Vermont, West Virginia and several areas with relatively large Hispanic populations (along the Rio Grande border, for example).

Eight years later, the map was very different (Figure 2). Many of the Democratic Party's landslides had disappeared; of the 525 counties Bill Clinton won by more than 20 percentage points in 1992 only 172 returned a similar victory for Al Gore (he won by a landslide in only eight of the 45 counties where Bill Clinton did so in his home state of Arkansas): just sixteen switched to a Republican landslide, however, and the remainder became more competitive. Only parts of southern New England produced a substantial block of Democratic landslide counties. By contrast, much of the map, especially west of the Missouri and extending across most of the Mountain states into western California, Oregon and Washington, had turned red. There was also a very substantial increase in the number of red counties to the east of the Mississippi, leaving only the counties of the upper Midwest, New England and much of the eastern seaboard with relatively close results in that election (a pattern also observed by Hopkins, 2017).

That large block of red remained in place at the next three elections – 2004, 2008 and 2012 – and the only significant change was an increase in the number of Democratic landslides: Gore won by that margin in just 192 counties in 2000, whereas Obama succeeded in doing so in 323 eight years later, winning by the same margin again in 255 of them in 2012. Those successes were concentrated along the eastern and western seabords, in New England and in New Mexico: there was no return to substantial Democratic hegemony in the Black Belt (Figure 3).

The elections from 1992 to 2012 were part of what students of American politics call a continuing sequence, of normal voting when most people retain their partisan preferences across

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<sup>4</sup> We are grateful to Clark Archer, Fred Shelley and Bob Watrell for allowing us to use the county-scale data set they compiled for presidential elections between 1992 and 2016 in this research (see Johnston et al., 2016).

<sup>5</sup> These maps were created using a carefully-constructed data set by Clark Archer, Fred Shelley and Bob Watrell for presidential elections between 1992 and 2016 in this research; we are grateful to them for sharing it with us.

elections, producing a relatively constant electoral geography (Converse, 1976; Key, 1955; Archer and Taylor, 1981). In this case, however, although the maps' general pattern retained their same shape (the areas of Republican and Democratic dominance were little changed) the topography became more exaggerated with the larger number of landslide victories, especially for the Republicans (Figure 4).

For some commentators, the 2016 election promised to be a deviation from that general pattern, as Trump relatively successfully campaigned among the disadvantaged white working class in areas where Republican landslides had previously been rare (much of the 'Rustbelt', for example). He won by landslides again in almost every county where Romney had in 2012 (indeed, only eight of those landslides were not repeated four years later), and added a further 507, mainly in the north-east (other than New England). There was less change to the geography of Democratic landslides: Hillary Clinton repeated Obama's success in 202 of the 266 counties where he won by more than 20 points – and only one county that provided Obama with a landslide victory did so for Trump. (On the 2017 election as part of the continuing sequence see Johnston, Pattie et al., 2017.)

The very different geographies of landslide victories for the Republican and Democratic Party candidates are clearly identified in the summary maps (Figures 5 and 6). For the Republicans, a majority of counties west of the Missouri were won by landslides at six or seven of the elections (Figure 5), as was also the case with many counties on the western fringe of the Appalachians and parts of the 'rust belt' (notably in Indiana, Ohio and Pennsylvania). Once the Republicans gained a landslide hold on a county they were very unlikely to lose it: of the 559 counties won by 20 percentage points or more in 1992, for example, only 28 were not won by that margin again in 2016 – and only two of those were Democratic landslide victories at the latter date. The Republicans won by a landslide in 587 and 610 counties respectively in 1992 and 1996, and then in 1428 when George W. Bush won his first election in 2000. Of the 725 counties won by a landslide then but not at the previous two contests, 225 were won by a landslide by neither party in 2008 (Obama's first victory) but by 2016 only 36 did not return a landslide Republican victory. Having become the dominant party in a county, the Republicans rarely saw their hegemony challenged in a contest where they failed to win again by at least 20 percentage points.

The contrast between the two maps in Figures 5 and 6 is stark. That for the Democratic Party has relatively few clusters of counties coloured dark blue, where its candidates won by more than 20 points at almost all of the seven elections. Apart from concentrations on the west coast, in New Mexico, along the southern Mississippi, in central Alabama and much of New England (especially Massachusetts and Vermont), there are also some areas (shown in the lighter blue) where the Democrats won landslide victories at a few contests – in Maine, for example, and parts of Arkansas (Bill Clinton's home state); but much of the country is blank – large tracts of territory, even whole states (Nebraska and Nevada), where the Democratic Party candidates failed to win a county by a landslide at even one of the seven elections. The high point was in 1996, when there were 542 Democratic landslide wins. At the next election in 2000 this was reduced to just 192; there was a recovery in 2008 and 2012, when Obama won landslides in 323 and 266 counties respectively, but this fell back to 226 in 2016. Bill Clinton gained a landslide victory in 542 counties in 1996, but Hillary Clinton won by a similar margin in only 165 of them in 2016, and she gained a landslide victory in just 208 of the 323 where Barack Obama did in 2008.

This asymmetry in the number of landslide counties is further illustrated in Table 1, which gives the percentage of the 3115 counties analysed here according to how many landslides they recorded over the seven elections. Comparing the two parties, the difference is stark: whereas some three-quarters of the counties returned a Democratic landslide at none of the contests, that was the case for only just over one-quarter for Republican landslides. Similarly, whereas 20.4 per cent of

counties returned a Republican landslide on six or seven occasions, and 37.4 per cent on at least five, the comparable figures for Democratic landslides were just 4.8 and 5.9 per cent.

The maps indicate considerable geographical variation in the distribution of landslide victories, therefore; this is encapsulated in Table 2 which shows the percentage of counties by the number of landslides for each party and of no landslides, by the nine Census Divisions. Nearly one-in-five of the counties returned a landslide for neither party at any election, for example, but that varied from just over 8 per cent in the East North Central division to almost 47 per cent in the Mountain division. Those returning no landslide at five or more of the seven elections formed more than half of the total number of counties in the East North Central, Mid-Atlantic and New England census divisions (i.e. the north-eastern parts of the country) and 45 per cent of the total in the Pacific region. By comparison, 46.9 per cent of counties in the Mountain division returned a landslide for one of the two parties at every election – in almost all cases for the Republican Party’s candidate. Within that division, 52 per cent of counties in Idaho returned a landslide for one of the parties at every election, as did 65 per cent of those in Utah and 77 per cent in Nebraska. These were overwhelmingly delivered for the Republican candidate: only one county in Idaho regularly returned a Democratic landslide; one Utah county did so at one election; and at none of the seven elections did even a single Nevada county deliver a Democratic landslide. New England was the only division at which over one-quarter of the counties returned a Democratic landslide at five or more of the seven elections, and of the other divisions only in the Pacific did even 15 per cent of counties return five or more Democratic landslides – a clear contrast to the five divisions where over 30 per cent of counties returned a landslide at five or more elections for the Republicans.

### **A misleading cartography?**

A sequence of Republican presidential candidates – George W. Bush, John McCain, Mitt Romney and Donald Trump – painted an increasing proportion of the map of American counties red according to this cartographic analysis. By 2016, 72 per cent of all counties returned a Republican landslide victory, compared to just 7 per cent for the Democrats – leaving only just over one-fifth of the country’s counties where the contest between the two parties was relatively close. But this geography does not correspond with the overall outcome of that final election in the sequence, when Hillary Clinton outvoted Donald Trump by 48.2 to 46.1 per cent. The reason, as several commentators have pointed out, is misleading cartography; the Republicans tend to win by large majorities in counties with relatively small populations – i.e. in rural and small-town America – leaving the Democrats winning by similar margins in a much smaller number of counties with very large populations – i.e. metropolitan America.

This clear difference is illustrated by Table 3. The first block shows the mean number of votes cast in each type of county at each election and illustrates a widening gap between the two parties. In 1992, the average county won with a Democratic landslide had about three times as many votes cast as the average county won with a Republican landslide; in 2016, the difference was almost ten times. As the number of Republican landslide counties increased almost fourfold their mean population increased by less than 20 per cent; Republican predominance was predominantly in small town and rural America. For the Democrats, whereas the number of counties where Hillary Clinton won by a landslide was less than half of the number won by Bill Clinton twenty-four years earlier, the mean number of votes cast in those landslide counties grew by some 280 per cent over the same period. Fewer places but more people – i.e. in the country’s large cities – delivered Democratic landslides.

This stark difference is brought into further relief in Table 3’s second block of data, which shows the total number of votes cast in each type of county at each election. At the first two

contests, many more votes were cast in Democratic- than in Republican-landslide counties (over three times as many in 1996). Although the gap closed thereafter, there were more voters in Democratic- than Republican-landslide counties at each successive election except 2004; and despite the massive difference in the number of counties won by landslides between the two parties' candidates in 2016 they had almost the same number of votes. Red might outshine blue on the map, but only because of the differences in the electorate of counties won by a landslide. Furthermore, as the data in the first column of the second block in Table 3 show, more than half of the total number of votes at every election until 2012 and 2016 were cast in counties that delivered a landslide to neither candidate: purple America was numerically larger than either red or blue America, but was increasingly unseen because those purple counties, too, had relatively large voting populations.

#### *Reanalysing the map: a metropolitan-rural continuum*

At the county scale, therefore, the polarization of America's electoral geography appears to have involved, in effect, a growing metropolitan-rural divide. To explore this further, counties have been grouped according to a scheme developed by the National Center for Health Statistics (Ingram and Franco, 2013). It has six categories:

##### *Metropolitan*

1. *Large Central Metro* – these counties are parts of Metropolitan Statistical Areas (MSAs) with more than one million inhabitants: they either contain the entire population of the MSA's central cities; or have their entire population in the MSA's largest central city; or contain at least 250,000 of the population of one of the MSA's principal cities.
2. *Large Fringe Metro* – these are counties in MSAs with more than one million inhabitants that did not qualify as Large Central Metros (i.e. they are basically suburban areas of large metropolises).
3. *Medium Metro* – all of the counties in MSAs with populations between 250,000 and 999,999.
4. *Small Metro* – counties in MSAs with less than 250,000 inhabitants.

##### *Non-Metropolitan*

5. *Micropolitan* – counties in defined micropolitan urban areas (with populations of 10,000-49,999).
6. *Noncore* – all other counties (i.e. rural).

Table 4 shows the percentage of counties in each of those six categories that returned either a landslide victory for one of the parties' candidate or no landslide, at each election. The difference between the two parties is again stark, and becomes starker over time. For the Democratic Party, as one proceeds through the six categories, from the inner cities of major metropolitan areas through their suburbs, the smaller cities and into small-town and rural America, the percentage of counties returning a landslide declines, increasingly precipitately. Complementing that pattern, as one moves down the columns so the percentage returning a Republican landslide increases. Democratic landslides were especially characteristic of the central cities of large metropolitan areas – and increasingly only so; Republican landslides increasingly dominated all other sections of America. Further, and importantly, given that up to half of all Americans who cast votes lived there, whereas at the early elections in the sequence there was little difference across the six categories in the percentage of counties that delivered a landslide to neither party's candidate, by 2016 their smaller number was increasingly concentrated in the bigger places. The smaller places became more polarized – almost entirely in favour of the Republican Party – whereas the largest places were divided between Democratic landslides and counties where the two parties shared the votes relatively equally.

Those trends over time are clarified by comparisons along the rows in Table 5. For the Large Central Metros, the later elections saw a not-inconsiderable increase in the percentage of counties delivering a Democratic landslide (from 48.4 to 64.5) and a fall to zero in the corresponding percentage of Republican landslides. The percentage of counties with no landslide also declined: America's central cities became increasingly-polarized, Democratic Party heartlands. In their suburbs (the Large Fringe Metros), on the other hand, there was increasing polarization into Republican landslides: the percentage of counties returning a Democratic landslide remained consistently small – never more than 16 per cent – but the dominant pattern of relatively evenly-matched parties (in 1992, 63 per cent of these counties returned a landslide for neither party) was replaced by Republican-dominated suburbia from 2000 on.

In the next two categories – the medium and small metropolitan areas – increased Republican dominance was even more marked, as the percentage of counties with either Democratic or, even more so, no landslide declined very substantially. This pattern was repeated in the Micropolitan and NonCore (i.e. rural) areas where Republican landslides increased fourfold over the period, Democratic landslides declined (precipitately in rural areas), and the percentage of counties where neither party dominated over the other also fell very substantially. By 2016 83.7 per cent of NonCore counties delivered a landslide victory for the Republican candidate, compared to 21.9 per cent twenty-four years earlier.

### **Changing the scale**

The results discussed above conform to Bishop's general argument regarding increased polarization of the American electorate over recent decades – the trend he had observed continued over the three further presidential elections in 2008, 2012 and 2016. The percentage of counties without a landslide victory for either party's candidate declined steeply from a little under 64 per cent in 1992 to just over 20 per cent in 2016. In that clear sense, the American electorate has become geographically more polarized in its support for Republican and Democratic Party candidates.

That headline pattern has to be qualified somewhat, however. Although nearly four-in-five counties returned a landslide victory for either Donald Trump or Hillary Clinton in 2016, nevertheless more votes were cast in those counties where there was no landslide for either candidate than in those where one or the other won by a margin of at least twenty percentage points. The modal US county in 2016 saw a relatively close race between the two main parties' candidates. Indeed, until 2012 more votes were cast in counties where there was no landslide victory than in a combination of those where one of the two candidates had a landslide victory, and by 2016 just under 40 per cent of all votes were still cast in the 'no landslide' counties.

Furthermore, the growth in landslide counties was asymmetric, in two ways. First, although many more counties returned Republican than Democratic landslide majorities over the seven elections, nevertheless at all but one of those contests (2004) more votes were cast in counties that returned a landslide for the Democratic Party's candidate than in those where the Republicans' candidate prevailed by the same margin. Secondly, the growth in the number of Republican landslides was very much concentrated in rural America, whereas in the metropolitan areas – especially their central cities – there were very few such counties; those inner city, high density areas were characterized, at all seven elections, by a combination of counties returning either a Democratic landslide or no landslide. The dominant geographical element was thus, as others have noted (Lichter and Ziliak, 2017), a growing metropolitan-urban-rural cleavage.

Those findings, though consistent with Bishop's general arguments and analyses, are in an important respect incommensurate with the more detailed features of his claims regarding the 'big



sort'. Much of his case regarding increased spatial polarization involves discussion of neighbourhoods and similar geographical units that are typically very much smaller than the average county: indeed, the average county in the central city of an MSA with a population of over one million will contain a myriad separate – if often overlapping – neighbourhoods. For example, Bishop (2009, 40) encourages his readers to

... look around: our own streets are filled with people who live alike, think alike, and vote alike. This social transformation didn't happen by accident. We have built a country where everyone can choose the neighborhood (and church and news shows) most compatible with his or her lifestyle and beliefs. And we are living with the consequences of this segregation by way of life: pockets of like-minded citizens that have become so identically inbred that we don't know, can't understand and can barely conceive of "those people" who live just a few miles away.

His geographical terms – streets, neighborhoods, 'pockets of like-minded citizens' – refer to much smaller areas than counties and although in some rural districts there may be relative uniformity across substantial tracts of territory in their populations' socio-economic and -demographic characteristics, this is almost certainly not the case across a majority of metropolitan counties, although many there may contain substantial blocks of contiguous neighbourhoods with similar features. So what is the situation within counties?

To address this question, we use data for voting patterns by precincts. There is no central aggregating agency for precinct-level election data in United States, nor is there in many states, so collection of precinct-level results for the 2012 and 2016 presidential elections required contacting the relevant electoral authorities in each state and county as needed. In most cases, state Secretaries of State or Election Boards provided state-wide precinct results, but several states required contacting each county's electoral authority independently, namely Colorado, Indiana, Michigan, Missouri, New Jersey, New York, and Pennsylvania. Kansas, Kentucky, Oregon, and West Virginia required county-specific contact for a minority of counties. Most electoral authorities provided results without charge via email or fax, but units such as Utah and many counties in Missouri required fees for access to their data. The Harvard Election Data Archive supplied precinct-level results for the 2008 presidential election. No data were available for earlier elections so in this section we can only analyse the last three.

Because precinct boundaries are frequently changed – especially though not only when there is a redistricting of electoral units, such as Congressional Districts – their number varied across the three elections. There were 189,697 for the 2008 election, with a mean number of votes cast of 690. In 2012, there were 173,524 with a mean of 712 votes cast; and in 2016 the mean was 780, across 173,526 precincts.

Table 6 shows the distribution of the three types of landslide at the precinct scale across the six types of county, for the three elections. The first block shows the distribution across the rows – i.e. each type within each year: thus, for example, 49.0 per cent of the precincts returning a Democratic landslide in 2008 were in the Large Metro Central counties and 19.6 per cent were in the Large Metro Fringe counties. The main feature of these figures is the absence of substantial change across the three elections; the distribution of precincts returning a Democratic landslide across the six types, for example, was little different in 2016 from the distribution in 2008.

The second block of data shows the percentage of precincts according to its landslide category in each of the six types at each election – in 2008, for example, 59.4 per cent of all precincts in Large Metro Central counties returned a Democratic landslide, for example, and 9.5 per cent returned a Republican landslide. These percentages suggest greater change across the three elections in most of the county types. The large metropolitan central cities – the first type – had just

a small increase (of 4.5 percentage points) in the precincts returning Democratic landslides between 2008 and 2016 and an even smaller decline in the percentage returning landslides. Elsewhere, across all five remaining types the dominant, and increasingly substantial, trend is for an increase in the percentage of precincts returning a Republican landslide, especially between 2012 and 2016. That percentage increased in the Micropolitan areas from 40.4 to 47.6 between the two Obama victories of 2008 and 2016 and then jumped to 65.9 per cent in 2016; and in the Noncore (i.e. predominantly rural) areas the increase was from 48.9 to 60.2 in the first inter-election period and then to 81.1 in the second. The country's inner cities swung slightly to the Democrats over the short period; in the suburbs and beyond, there was a swing towards the Republicans while Obama remained in power but when Trump faced Hillary Clinton that was magnified very considerably.

At the precinct scale, therefore – the scale of the neighbourhood on which most of Bishop's discussion, if not his data and maps, focused – the metropolitan-rural continuum again stands out. The pattern changed very little in the metropolitan central cities over the three elections: a majority of the precincts returned a Democratic landslide, less than one-tenth of all precincts returned a Republican landslide, and there was a landslide for neither party in between one-quarter and one-third of all precincts. In all of the other five types – from the suburbs of large metropolitan areas through to the rural areas – the dominant change was a significant reduction in the percentage of precincts that returned a landslide for neither party and a substantial increase in the percentage delivering a landslide for the Republicans.

This lack of substantial change in the large metropolitan areas, especially their central cities, between 2012 and 2016 is somewhat surprising, given that much of Trump's campaign focused on the relatively deprived, white working-class, many of whom lived in those places (Kivisto, 2017; Ashcroft, 2017). To explore this further we used a statistical classification algorithm to group together metropolitan areas (SMSAs) according to the percentage of their precincts at each of the elections that returned no landslide, a Democratic landslide or a Republican landslide. Eight groups were identified, and the average percentages for each are in Table 7. Of the 373 SMSAs for which we have data, only 51 showed no appreciable change: eleven (group 1) had a Democratic landslide in the great majority of their precincts at all three elections and forty similarly saw a Republican landslide in most of their precincts at each contest. The third group of 92 SMSAs, which included almost all of the country's biggest cities, saw very little change in their profiles, with the largest percentage of precincts delivering a Democratic landslide. The remaining five groups were all characterised, to some extent, by an increase in the percentage of precincts that returned a Republican landslide. By far the biggest absolute change in that direction was in the forty SMSAs in the seventh group, where the percentage of Republican landslide precincts increased fourfold from 16 to 64. Many of those SMSAs are in the East North Central division – rustbelt places such as Carbondale-Marion, IL, Evansville, IN-KY, Johnstown, PA, and Wheeling, WV-OH, where Trump substantially extended the Republican's dominance in many neighborhoods.

As the country's smaller city, small town and rural counties became more predominantly Republican in their voting for president, therefore, so an increasing share of their precincts returned a landslide victory for the Republican candidates. In many metropolitan areas, on the other hand, there was relatively little change in the percentage of precincts returning a landslide for one or the other party's candidate, but that was not the case where Trump made substantial inroads to the Democratic Party's dominance in some rustbelt – mainly smaller – metropolitan areas.

Within most large metropolitan areas change in the pattern of landslide victories was largely concentrated in the suburban counties. This is illustrated by the fourteen-county Chicago-Naperville-Elgin SMSA, thirteen of which are classed as Large Central Metro in the NCHS classification and the remainder as Large Fringe Metro. They are split into three groups in Table 8:

Cook County – the Large Central Metro which includes the City of Chicago; four counties which border on Cook (the inner suburbs); and the nine ‘outer suburban’ counties. Very little changed in Cook County over the three elections: over three-quarters of precincts returned a Democratic landslide at each and there were virtually no Republican landslide precincts. The next group of four counties – the ‘inner suburbs’ – are characterised, with the exception of Lake County (IN), by large shares of precincts returning no landslide at any of the three elections and with only small percentages returning Republican landslides. Finally, the main feature of the nine ‘outer suburban’ counties is the substantial increase in most in the percentage of precincts delivering a Republican landslide – every precinct in two cases in 2016.

## Discussion and conclusions

Bishop’s book *The Big Sort* introduced a linked pair of hypotheses to the study of the electoral geography of the United States. Empirical investigations show that one of these – that the country is becoming increasingly polarized, as shown by the patterns of voting for Democratic and Republican Party candidates for the presidency – has considerable validity, both nationally and locally at a variety of spatial scales. The second – that the polarization is linked to greater self-selection in migration patterns: people are increasingly congregating together with those with whom they share attitudes that are reflected in their voting behaviour – has, as yet, gained only muted support.

This paper has focused on the first of those hypotheses, using Bishop’s chosen measure of polarization – the percentage of areas (counties in his case) won by a landslide majority of twenty percentage points or more – to explore its geography in greater detail than presented in his book or elsewhere (though see the atlases of recent elections: Brunn et al., 2010; Archer et al., 2014; Watrel et al., 2018). Cartographically, it appears that over the period 1992-2016 the country not only became increasingly polarized (more counties delivered a landslide victory for one of the party’s candidates) but also that the main beneficiary of that trend was the Republican Party. Closer examination showed that although it was indeed the case that more counties delivered a Republican landslide, most of them were relatively small in their number of voters if not area and at all but one of the seven elections studied more voters lived in counties that returned a Democratic rather than a Republican landslide – and even more lived in counties that delivered a landslide for neither party.

Closer examination of the pattern of changes using a classification of counties showed that the main change in the frequency of Republican landslides occurred outside the metropolitan areas, especially their central cities. Whereas in most SMSAs the central cities were dominated by the Democratic Party across all seven elections, with very few of them returning a Republican landslide, an increasing number of suburban counties switched from delivering no landslide to one favouring the Republicans and by 2016 a majority of counties beyond the metropolitan borders delivered such a landslide. In the rural counties, fully 81 per cent of precincts gave the Republican candidate a landslide victory then, although there were considerable geographical variations – for example, no state in New England had more than 40 per cent of precincts in the fifth and sixth NCHS types returning a Republican landslide, whereas in each of Idaho, Indiana, Kentucky, Missouri, Nebraska, Nevada, North Dakota, Oklahoma, Pennsylvania, Tennessee, West Virginia and Wyoming that was the case in over 90 per cent of precincts.

This rural-urban continuum in presidential voting patterns across most of the United States has become more pronounced recently, with the Democratic Party increasingly attracting strong support only in the major metropolitan areas, especially their central cities and some of their suburbs: ‘where the suburbs start to resemble rural exurbia, and in the vast rural regions beyond, Republicans find much friendlier territory’ (Scala and Johnson, 2017, 181). Residents in those increasingly pro-Republican areas, including many who have retired there from the big cities, are

more religious, less liberal in their attitudes (on same-sex marriage and abortion, for example) and want stricter controls on immigration and immigrants – attitudes that make them more likely to favour Republican candidates, especially Donald Trump (see Gorski, 2017). But most Americans live in the country's metropolitan areas and they, especially their suburbs given that there is already a Democratic hegemony in most of the central cities, are likely to form the main battleground at future elections. They are, however, the parts of the country, as this analysis has shown, which have experienced least change recently. Bishop's discussion of his polarization hypothesis focused on the streets and neighbourhoods that are becoming more homogeneous and as a consequence more likely to provide a landslide victory for one of the two parties. But in the country's densely populated cities the data presented here have found little evidence of more landslide victories at the precinct (i.e. neighbourhood) scale over the last three elections. The big changes have been in some of the less densely populated suburbs, in the smaller towns and cities, and in the rural areas, where the number of Republican landslide victories has increased substantially but which – even in 2016 – housed only 30 per cent of those who voted.

In his discussion of the growing ideological and attitudinal polarization of the American electorate, Campbell (2016) asked whether the consequences of the divergence might include that the country's legislative bodies would become less representative, that governance of such a divided country would become more difficult and less effective – and, if so, what could be done about it. His discussion of those and other issues made no reference to the potential impact of the growing spatial polarization outlined here – pitting metropolitan America (especially its large central cities and their inner suburbs) against the rest of the country. One aspect of that spatial polarization which could have an important influence on the ideological polarization of the country's legislature is the potential it offers for even more gerrymandering and the creation of safe seats, which in its turn favours the selection and election of more ideologically extreme candidates. By indicating that it knew of no judicial standard against which it could determine whether a districting map was a gerrymander – unlike the situation with the numerical standard used to outlaw malapportionment – a Supreme Court 2006 judgement encouraged more extensive gerrymandering. The Republican Party capitalised on this in the redistricting exercises that followed the 2010 census (McGann et al., 2016; see also Daley, 2016) and the Court's 2018 judgements dismissing two further cases claiming partisan – pro-Republican – gerrymandering will encourage its continued deployment, leading to a more divided House of Representatives and make questions regarding both the institution's representativeness and the barriers to effective democratic government even more moot (Johnston, 2018).

Within the large literature on political polarization in the contemporary United States, the issue of spatial polarization has received relatively little attention. Bishop's book challenged that situation, and the empirical evidence assembled over the last decade (notably at the state and district scales by Hopkins, 2017), and extended here, has validated his general hypothesis. Spatial polarization has increased – but the changing patterns are more nuanced, more geographically variable, than a simple chasm opening up across the whole country. The changes outlined here indeed indicate increased polarization but it has been more intense in some parts of the urban-rural continuum, and in some parts of the country, than others.

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**Table 1.** The percentage of counties according to the number of landslides recorded at the US presidential elections, 1992-2016

	0	1	2	3	4	5	6	7
No Landslides	18.2	8.2	20.3	12.1	9.9	8.8	12.2	10.1
Democratic Landslides	75.5	7.1	7.5	2.8	1.1	1.1	1.3	3.5
Republican Landslides	25.1	12.6	6.9	7.7	9.9	17.2	6.0	14.7



**Table 2.** The percentage of counties according to the number of elections at which they delivered a Democratic landslide, a Republican landslide or no landslide, by census division

Division	Number of Elections							
	0	1	2	3	4	5	6	7
<i>Democratic Landslides</i>								
New England	16.4	17.9	22.4	6.0	10.4	4.5	9.0	13.4
Mid Atlantic	73.3	8.0	5.3	2.7	1.3	2.0	0.7	6.7
East North Central	77.3	9.8	5.9	3.0	0.0	1.1	0.9	1.8
West North Central	84.4	5.9	5.0	1.3	0.4	0.6	1.0	1.5
South Atlantic	75.3	5.6	6.7	4.7	0.9	1.3	1.4	4.2
East South Central	70.1	8.2	9.9	4.4	0.8	1.4	1.1	4.1
West South Central	69.4	9.4	14.3	2.1	0.9	0.9	1.1	2.1
Mountain	87.7	2.7	3.2	0.8	1.3	0.5	0.8	2.9
Pacific	69.3	4.4	3.6	2.9	4.4	2.2	2.9	10.2
TOTAL	75.5	7.1	7.5	2.8	1.1	1.1	1.3	3.5
<i>Republican Landslides</i>								
New England	97.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Mid Atlantic	45.3	20.0	6.0	2.7	9.3	6.7	5.3	4.7
East North Central	25.4	28.8	7.8	7.6	11.4	7.8	4.8	6.4
West North Central	13.7	23.6	8.0	7.8	8.4	14.3	8.6	15.6
South Atlantic	32.5	7.8	10.5	6.3	10.1	19.3	5.6	7.9
East South Central	18.7	6.6	9.1	11.9	16.8	19.2	4.7	13.2
West South Central	13.8	3.6	3.4	12.8	11.1	34.0	5.1	16.2
Mountain	18.0	4.3	2.7	2.9	5.9	14.7	7.5	44.0
Pacific	54.7	4.4	8.0	7.3	3.6	13.1	7.3	1.5
TOTAL	25.1	12.6	6.9	7.7	9.9	17.2	6.0	14.7
<i>No Landslides</i>								
New England	13.4	9.0	4.5	10.4	6.0	25.4	14.9	16.4
Mid Atlantic	11.3	6.0	9.3	10.0	6.7	12.0	22.0	22.7
East North Central	8.2	5.7	9.4	11.9	14.0	13.5	24.7	12.6
West North Central	17.3	9.3	15.4	9.9	12.4	8.2	21.7	5.7
South Atlantic	12.1	7.4	22.0	12.5	11.9	10.6	8.5	15.0
East South Central	17.3	8.2	25.0	22.5	10.2	5.2	3.8	7.7
West South Central	18.5	10.2	41.3	12.3	7.0	4.5	3.6	2.6
Mountain	46.9	8.3	15.5	7.2	4.3	5.1	5.6	7.0
Pacific	11.7	10.2	15.3	8.0	10.2	11.7	8.8	24.1
TOTAL	18.2	8.2	20.3	12.1	9.9	8.8	12.2	10.1

**Table 3.** The number of voters in ‘landslide counties’, 1992-2016

Type of landslide	None	Republican	Democrat	Total .
<i>Mean number of votes cast</i>				
1992	26,093	14,473	44,604	27,036
1996	25,859	13,067	51,682	27,888
2000	38,253	15,329	121,524	32,809
2004	51,462	19,412	152,053	39,167
2008	49,185	15,776	123,136	41,852
2012	57,168	16,424	131,888	41,002
2016	79,938	17,281	169,872	41,487
<i>Total number of votes cast</i>				
1992	51,220,295	8,510,223	23,462,140	83,192,568
1996	49,726,147	7,971,081	28,115,946	85,812,724
2000	55,733,983	21,889,521	23,332,700	100,956,204
2004	62,886,776	32,845,280	24,784,729	120,516,785
2008	66,596,774	22,038,784	40,142,371	128,777,929
2012	62,368,779	28,184,145	35,609,789	126,163,713
2016	50,441,178	38,312,901	38,900,702	127,654,781

**Table 4.** The percentage of counties returning a Democratic or a Republican landslide, or no landslide, at each presidential election 1992-2016, according to the NCHS classification of counties

	No	Dem	Rep	No	Dem	Rep
	<i>1992</i>			<i>1996</i>		
Large Central Metro	48.4	48.4	3.2	48.4	50.0	1.6
Large Fringe Metro	63.4	12.8	23.9	65.1	16.2	18.8
Medium Metro	71.0	13.4	15.6	65.3	18.0	16.7
Small Metro	71.1	14.6	14.3	69.7	13.1	17.1
Micropolitan	67.5	15.6	17.0	67.3	15.9	16.8
NonCore	58.9	19.2	21.9	57.4	18.5	24.1
<b>TOTAL</b>	<b>63.8</b>	<b>17.1</b>	<b>19.1</b>	<b>62.5</b>	<b>17.6</b>	<b>19.9</b>
	<i>2000</i>			<i>2004</i>		
Large Central Metro	46.8	45.2	8.1	50.0	41.9	8.1
Large Fringe Metro	49.4	8.0	42.6	41.2	5.4	53.4
Medium Metro	56.0	7.4	36.6	47.0	6.3	46.7
Small Metro	52.3	3.1	44.6	42.0	2.9	55.1
Micropolitan	49.5	5.2	45.3	41.4	4.4	54.2
NonCore	41.8	5.0	53.3	35.1	4.4	60.5
<b>TOTAL</b>	<b>47.2</b>	<b>6.3</b>	<b>46.5</b>	<b>39.5</b>	<b>5.3</b>	<b>55.1</b>
	<i>2008</i>			<i>2012</i>		
Large Central Metro	40.3	58.1	1.6	40.3	56.5	3.2
Large Fringe Metro	51.4	11.6	36.9	44.0	9.1	46.9
Medium Metro	49.7	13.9	36.3	45.1	11.7	43.2
Small Metro	47.4	9.4	43.1	37.4	7.1	55.4
Micropolitan	46.2	10.2	43.6	37.7	7.9	54.4
NonCore	38.5	7.4	54.0	28.6	6.2	65.2
<b>TOTAL</b>	<b>44.0</b>	<b>10.5</b>	<b>45.5</b>	<b>35.5</b>	<b>8.7</b>	<b>55.9</b>
	<i>2016</i>					
Large Central Metro	35.5	64.5	0.0			
Large Fringe Metro	29.8	10.2	59.9			
Medium Metro	33.6	9.0	57.4			
Small Metro	26.3	6.3	67.4			
Micropolitan	20.1	6.4	73.4			
NonCore	12.2	4.1	83.7			
<b>TOTAL</b>	<b>20.5</b>	<b>7.4</b>	<b>72.2</b>			

**Table 5.** Changes in the percentage of counties by landslide type and county type, 1992-2016.

	1992	1996	2000	2004	2008	2012	2016
<i>Large Central Metro</i>							
No Landslide	48.4	48.4	46.8	50.0	40.3	40.3	35.5
Democratic Landslide	48.4	50.0	45.2	41.9	58.1	56.5	64.5
Republican Landslide	3.2	1.6	8.1	8.1	1.6	3.2	0.0
<i>Large Fringe Metro</i>							
No Landslide	63.4	65.1	49.4	41.2	51.4	44.0	29.8
Democratic Landslide	12.8	16.2	8.0	5.4	11.6	9.1	10.2
Republican Landslide	23.9	18.8	42.6	53.4	36.9	46.9	59.9
<i>Medium Metro</i>							
No Landslide	71.0	65.3	56.0	47.0	49.7	45.1	33.6
Democratic Landslide	13.4	18.0	7.4	6.3	13.3	11.7	9.0
Republican Landslide	15.6	16.7	36.6	46.7	36.3	43.2	57.4
<i>Small Metro</i>							
No Landslide	71.1	69.7	52.3	42.0	47.4	37.4	26.3
Democratic Landslide	14.6	13.1	3.1	2.9	9.4	7.1	6.3
Republican Landslide	14.3	17.1	44.6	55.1	43.1	55.4	67.4
<i>Metropolitan</i>							
No Landslide	67.5	67.3	49.5	41.4	46.2	37.7	20.1
Democratic Landslide	15.6	15.9	5.2	4.4	10.2	7.9	6.4
Republican Landslide	17.0	16.8	45.3	54.2	43.6	54.4	73.4
<i>NonCore</i>							
No Landslide	58.9	57.4	41.8	35.1	38.5	28.6	12.2
Democratic Landslide	19.2	18.5	5.0	4.4	7.4	6.2	4.1
Republican Landslide	21.9	24.1	53.3	60.5	54.0	65.2	83.7

**Table 6.** The percentage of precincts returning a Democratic or a Republican landslide, or no landslide, at the 2008, 2012 and 2016 presidential elections, according to the NCHS classification of counties

	LMetC	LMetF	MMet	SMet	MiMet	NCore	TOTAL
<i>Percentages of Row Totals</i>							
<i>2008</i>							
No Landslide	22.2	26.7	18.2	10.0	11.8	11.2	100.0
Democratic Landslide	49.0	19.6	16.3	5.6	5.5	3.9	100.0
Republican Landslide	10.6	18.5	19.0	12.3	17.7	21.9	100.0
TOTAL	28.5	22.1	17.7	9.1	11.1	11.4	100.0
<i>2012</i>							
No Landslide	22.7	26.9	17.9	9.8	12.7	10.0	100.0
Democratic Landslide	51.0	18.9	16.3	5.2	5.1	3.5	100.0
Republican Landslide	10.4	19.7	18.0	12.7	17.3	21.9	100.0
TOTAL	28.0	22.0	17.4	9.2	11.7	11.7	100.0
<i>2016</i>							
No Landslide	27.0	30.5	20.5	8.0	9.2	4.8	100.0
Democratic Landslide	54.8	20.4	15.0	4.5	3.3	2.1	100.0
Republican Landslide	6.5	19.0	18.2	13.0	19.3	23.9	100.0
TOTAL	28.6	22.8	17.8	8.7	11.0	11.1	100.0
<i>Percentages in Type</i>							
<i>2008</i>							
No Landslide	31.1	48.1	40.9	44.0	42.4	39.1	40.0
Democratic Landslide	59.4	30.6	31.8	21.3	17.1	11.9	34.5
Republican Landslide	9.5	21.3	27.3	34.8	40.4	48.9	25.5
<i>2012</i>							
No Landslide	28.3	42.9	35.9	37.2	37.9	29.9	35.0
Democratic Landslide	59.8	28.3	30.8	18.5	14.4	10.0	32.9
Republican Landslide	11.9	28.8	33.2	44.3	47.6	60.2	32.1
<i>2016</i>							
No Landslide	27.4	38.9	33.3	26.6	24.2	12.6	29.0
Democratic Landslide	63.9	29.9	28.1	17.2	9.8	6.3	33.4
Republican Landslide	8.6	31.3	38.5	56.3	65.9	81.1	37.8

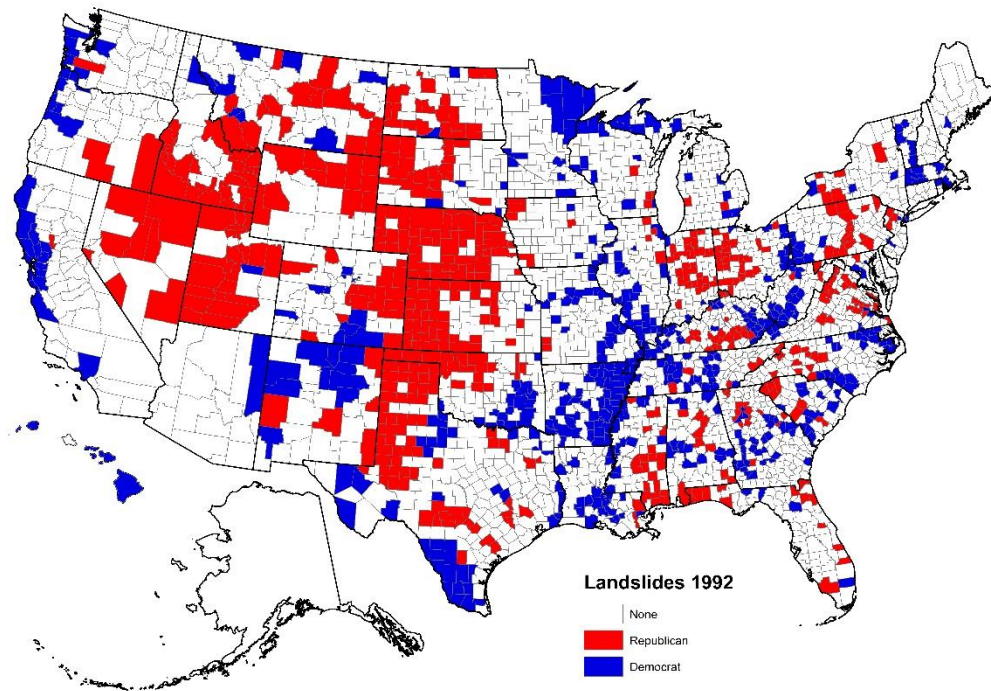
**Table 7.** The profiles of the eight groups of SMSAs according to the percentage of their precincts delivering each type of landslide at the three US presidential elections, 2012-2016

Landslides (%)	Group							
	1	2	3	4	5	6	7	8
No 2008	8.5	10.8	37.9	53.3	35.3	61.6	67.3	32.2
No 2012	9.8	8.3	34.7	44.3	42.0	65.8	54.3	23.9
No 2016	13.2	7.2	30.9	42.8	50.9	57.5	29.0	17.4
Democratic 2008	90.5	5.5	44.0	17.0	63.4	34.9	16.5	12.5
Democratic 2012	88.2	5.4	42.7	15.8	54.5	27.9	11.6	11.5
Democratic 2016	85.0	5.5	44.8	16.4	34.3	22.9	6.7	10.8
Republican 2008	1.0	83.8	18.1	29.4	1.3	3.5	16.2	55.3
Republican 2012	2.1	86.3	22.6	39.9	3.5	6.4	34.1	64.6
Republican 2016	1.9	87.3	24.3	40.9	14.8	19.7	64.3	71.8
Number of SMSAs	11	40	92	43	15	35	40	97

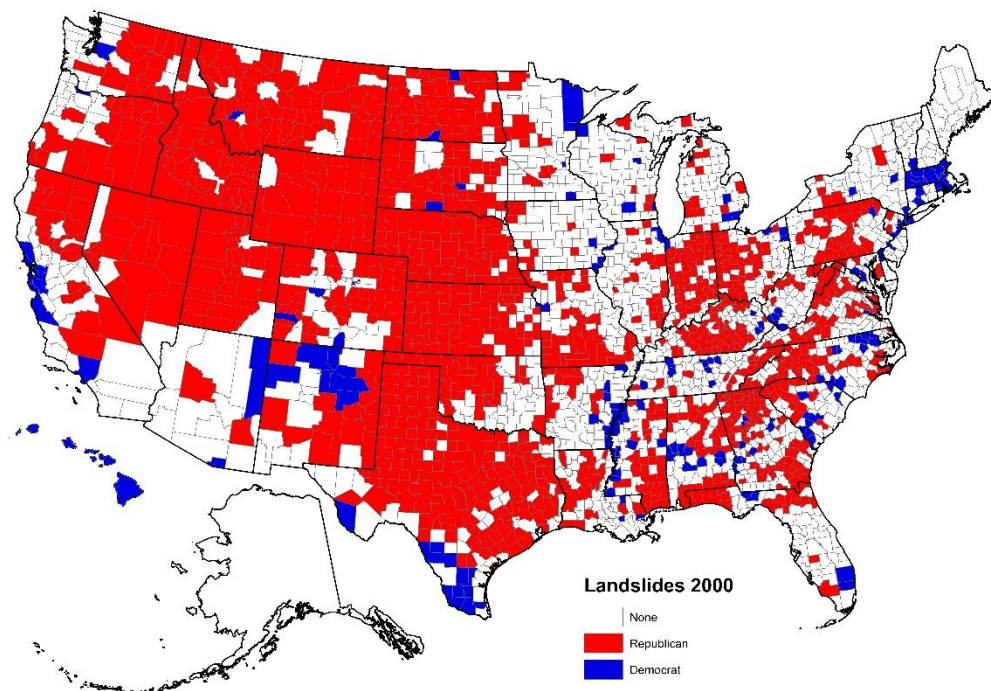
**Table 8.** Percentage of precincts returning no landslide, a Democratic landslide or a Republican landslide at the 2008, 2012 and 2016 presidential elections in the fourteen counties of the Chicago-Napier-Elgin SMSA

County	No Landslide			Democratic Landslide			Republican Landslide		
	2008	2012	2016	2008	2012	2016	2008	2012	2016
Cook	20	22	18	79	75	81	1	3	1
Lake (IL)	52	52	45	44	33	49	4	15	6
Du Page	70	70	57	27	15	40	4	15	2
Will	59	50	47	35	35	35	6	14	18
Lake (IN)	34	34	37	62	59	50	4	7	14
Kenosha	65	50	56	32	36	33	4	14	10
McHenry	81	78	76	17	2	3	1	20	21
Kane	50	46	51	45	34	42	4	20	7
DeKalb	45	50	43	48	32	31	7	18	26
Kendall	68	61	63	23	15	12	9	24	25
Grundy	84	72	25	9	0	0	7	28	75
Newton	67	39	0	0	0	0	33	61	100
Jasper	59	24	0	0	0	0	41	76	100
Porter	68	60	71	27	30	7	5	9	22

**Figure 1.** Counties won by landslides at the 1992 US presidential election.

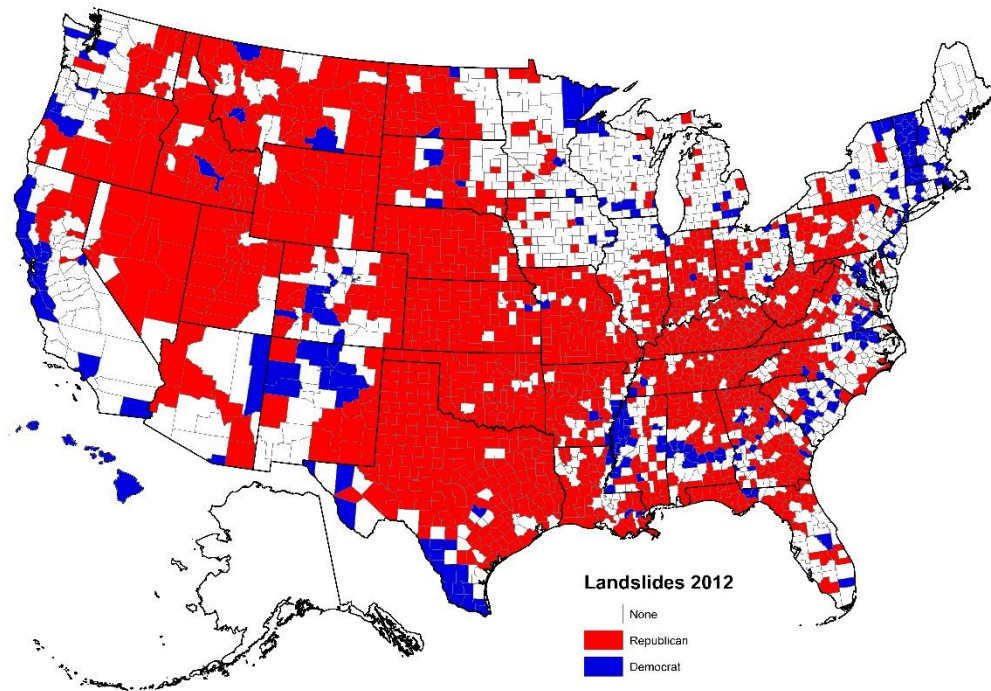


**Figure 2.** Counties won by landslides at the 2000 US presidential election

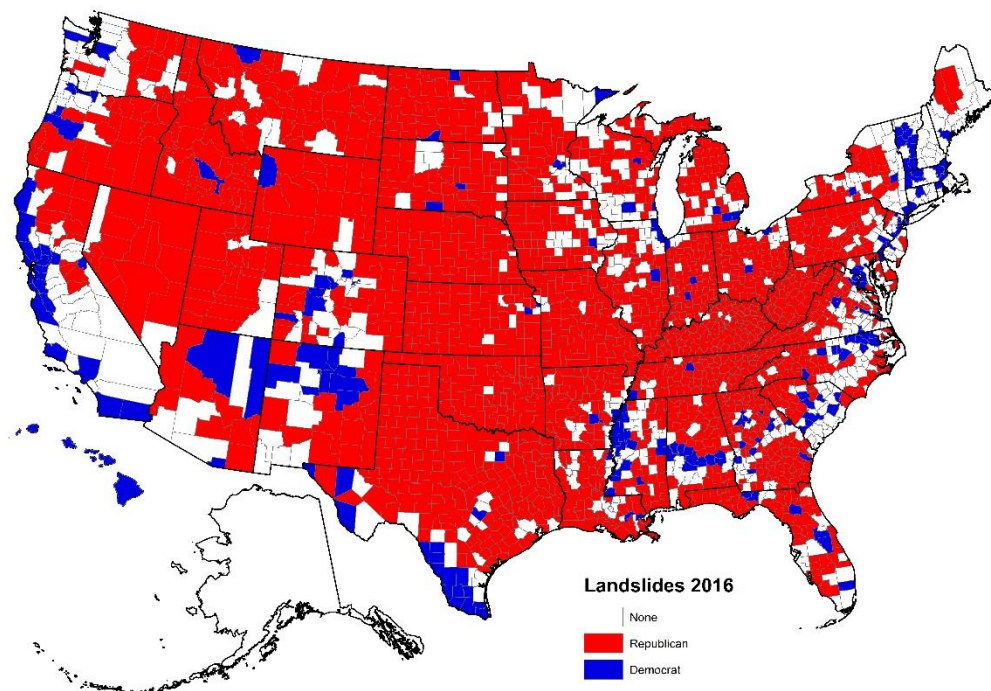




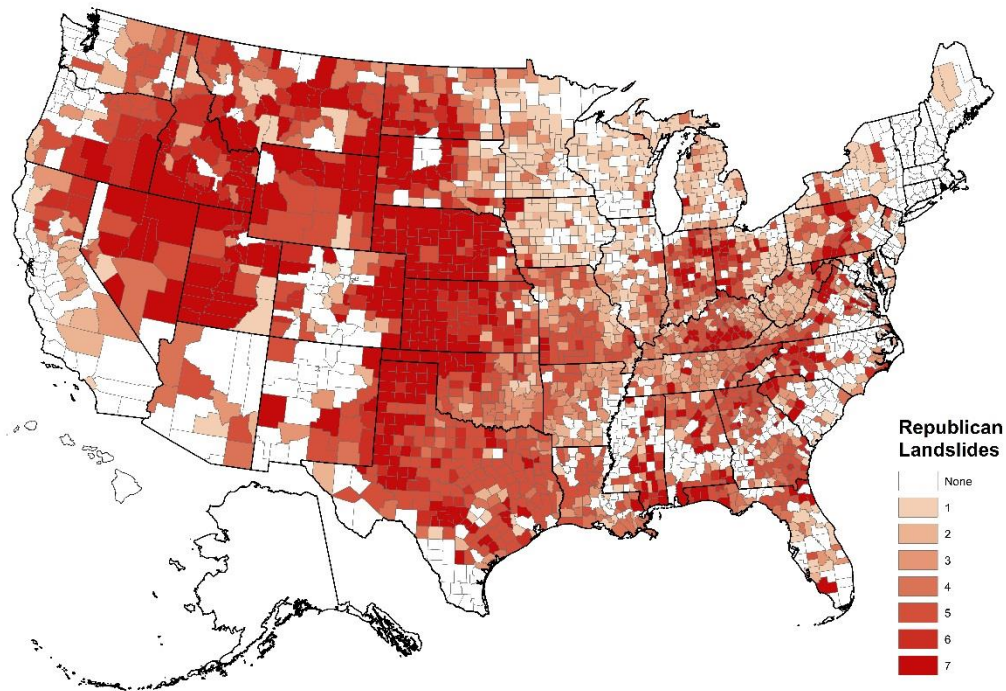
**Figure 3.** Counties won by landslides at the 2012 US presidential election



**Figure 4.** Counties won by landslides at the 2016 US presidential election.



**Figure 5.** The number of US presidential elections where the county was won by a landslide for the Republican party, 1992-2016.



**Figure 6.** The number of US presidential elections where the county was won by a landslide for the Democratic party, 1992-2016.

